

IN THE CLAIMS:

1. (CURRENTLY AMENDED) A computer-readable recording medium that stores a task control computer program including computer executable instructions which when executed by a computer, cause the computer to execute ~~an~~ a General-Purpose operating system as a task by performing:

determining whether a non-idle process is included in processes to be executed under control of the General-Purpose operating system based on a process identifier stored in a process control block (PCB) of processes to be executed under control of the General-Purpose operating system, wherein the process identifier indicates whether a process is the non-idle process or not and the non-idle process is a process waiting for execution under control of the General-Purpose operating system, other than an idle process executed when the General-Purpose operating system proceeds to an idle state; and

changing a priority of the task to a higher priority ~~higher than a primary priority of the task to execute the operating system under control of which the non-idle process is executed by~~ reading the higher priority stored in a storage unit as a system parameter and setting the priority of the task to the higher priority when it is determined at the determining that the processes to be executed under control of the General-Purpose operating system include the non-idle process, the higher priority being set higher than a primary priority of the task to execute the General-Purpose operating system under control of which the non-idle process is executed, the task being executed under control of a Real-Time operating system.

2. (PREVIOUSLY PRESENTED) The computer-readable recording medium that stores the task control computer program according to claim 1, further comprising a system call that executes the determining and the changing.

3. (PREVIOUSLY PRESENTED) The computer-readable recording medium that stores the task control computer program according to claim 1, further comprising changing priority of the task to the primary priority lower than the higher priority by reading the primary priority stored in the storage unit as a system parameter and setting the priority of the task to the primary priority after the operating system has been executed at the higher priority for a predetermined period of time.

4. (PREVIOUSLY PRESENTED) The computer-readable recording medium that stores the task control computer program according to claim 1, wherein the determining comprises:

determining whether the non-idle process is executable under the control of the operating system;

determining whether a schedule request for one of the processes to be executed under control of the operating system has been made to the operating system; and

determining whether an interruption request has been made to the operating system based on an interruption request flag set when an interruption to the operating system is required.

5. (CANCELLED)

6. (PREVIOUSLY PRESENTED) The computer-readable recording medium that stores the task control computer program according to claim 4, wherein the determining whether the schedule request has been made to the operating system is based on a schedule request flag stored in the process control block of one of the processes to be executed under control of the operating system.

7. (CANCELLED)

8. (PREVIOUSLY PRESENTED) The computer-readable recording medium that stores the task control computer program according to claim 1, wherein the primary priority of the task is changed to the higher priority when a predetermined period of time has elapsed after it is determined at the determining that the non-idle process waiting for the execution is included in the processes to be executed under control of the operating system.

9. (CURRENTLY AMENDED) A task control apparatus, comprising:

a storage device storing computer-readable instructions, execution of the instructions by the task control apparatus facilitates causing a computer to execute ~~an~~ a General-Purpose operating system as a task, execution of the instructions configuring the task control apparatus to include

a process control block (PCB) that stores a process identifier that indicates whether ~~the~~ a process is a non-idle process or not;

a determining unit that determines whether the process is the non-idle process or not and the non-idle process is executable under control of the General-Purpose operating system based on the process identifier stored in the process control block (PCB) of processes to

be executed under control of the General-Purpose operating system, wherein the non-idle process is a process waiting for execution as the task under control of the General-Purpose operating system, other than an idle process executed when the General-Purpose operating system proceeds to an idle state; and

a changing unit that changes a priority of the task to a priority higher than a primary priority of the operating system task by reading the primary priority higher than the primary priority stored in a storage unit as a system parameter and setting the priority of the task to the priority higher than the primary priority when it is determined that the processes to be executed under control of the operating system include the non-idle process, the higher priority being set higher than a primary priority of the task to execute the General-Purpose operating system under control of which the non-idle process is executed, the task being executed under control of a Real-Time operating system.

10. (CURRENTLY AMENDED) A task control method for causing a computer to execute ~~an~~ a General-Purpose operating system as a task, comprising:

determining whether processes to be executed under control of the General-Purpose operating system include a non-idle process based on a process identifier stored in a process control block (PCB) of processes to be executed under control of the General-Purpose operating system, wherein the process identifier indicates whether a process is the non-idle process or not and the non-idle process is a process waiting for execution as the task under control of the General-Purpose operating system, other than an idle process executed when the General-Purpose operating system proceeds to an idle state; and

changing a priority of the task to a priority ~~higher than the primary priority of the task by~~ reading the priority higher than the primary priority stored in the storage unit as a system parameter and setting the priority of the task to the priority higher than the primary priority when it is determined that processes to be executed under control of the General-Purpose operating system include the non-idle process, the higher priority being set higher than a primary priority of the task to execute the General-Purpose operating system under control of which the non-idle process is executed, the task being executed under control of a Real-Time operating system.

11. (PREVIOUSLY PRESENTED) The computer-readable recording medium that stores the task control computer program according to claim 2, further comprising changing the priority of the task to the primary priority lower than the higher priority by reading the primary priority stored in the storage unit as a system parameter and setting the priority of the task to the primary

priority after the operating system has been executed at the higher priority for a predetermined period of time.

12. (CURRENTLY AMENDED) A task control method for causing a computer to execute ~~an~~ a General-Purpose operating system as a task, the method comprising:

raising a priority of the task by reading a higher priority than a primary priority stored in a storage unit as a system parameter and setting the priority of the task to the higher priority upon determining processes to be executed under control of the General-Purpose operating system include a non-idle process to be executed under control of the General-Purpose operating system other than an idle process executed when the General-Purpose operating system proceeds to an idle state and based on an identifier stored in a control block executed by the General-Purpose operating system, wherein the task being executed under control of a Real-Time operating system.

13. (CURRENTLY AMENDED) A method performed by a processor causing a computer to execute ~~an~~ a General-Purpose operating system as a task comprising:

changing a priority of the task to a priority higher than a primary priority by reading the priority higher than the primary priority stored in a storage unit as a system parameter and setting the priority of the task to the priority higher than the primary priority to execute the General-Purpose operating system under control of which the non-idle process is executed upon determining that processes to be executed include a non-idle process, wherein the task being executed under control of a Real-Time operating system.

14. (CURRENTLY AMENDED) A method performed by a processor causing a computer to execute a General-Purpose ~~an~~ operating system as a task comprising:

reading a priority higher than a primary priority from a storage unit as a system parameter; and

setting a priority of ~~a~~ the task to a priority that is read from a storage unit as a system parameter that is higher than a primary priority to execute the General-Purpose operating system and an included non-idle process, wherein the task being executed under control of a Real-Time operating system.